

10/662, 808

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(FILE 'HOME' ENTERED AT 19:14:40 ON 24 MAY 2006)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 19:27:35 ON 24 MAY 2006

L1 27099 S TRKB(W)RECEPTOR(3A)AGONIST OR BRAIN(W) (DERIVED OR DEVIATED) (W
L2 10688 S TETANUS(W)TOXIN
L3 6606 S NEURON?(3A)TRANSPORT
L4 2 S L1 AND L2 AND L3
L5 43 S L1 AND L2
L6 2 DUP REM L4 (0 DUPLICATES REMOVED)
L7 19 DUP REM L5 (24 DUPLICATES REMOVED)

=> d au ti so pi ab 1-2 l6

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
IN Vazquez-Martinez, Rafael; Brulet, Philippe
TI Fusion protein comprising **tetanus toxin** C fragment and
green fluorescent protein or β -galactosidase for direct visualization
of active synapses and their use in diagnosis and treatment of
neurodegenerative disorders
SO U.S. Pat. Appl. Publ., 58 pp., Cont.-in-part of U.S. Ser. No. 662,808.
CODEN: USXXCO

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005060761	A1	20050317	US 2004-817961	20040406
US 2003004121	A1	20030102	US 2001-816467	20010326
US 2004170651	A1	20040902	US 2003-662808	20030916
WO 2005097200	A2	20051020	WO 2005-EP4314	20050405

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG

AB A hybrid protein (GFP-TTC) comprising the non-toxic proteolytic C fragment
of **tetanus toxin** fused to green fluorescent protein or
 β -galactosidase was used to analyze the functional synaptic
organization of neural networks. When injected i.m. in vivo, the GFP-TTC
hybrid protein binds to tetanus neurotoxin receptors and clusters very
rapidly to the active neuromuscular junction. Membrane traffic by GFP-TTC
at the pre-synaptic level of the neuromuscular junction is strongly and
rapidly influenced by exogenously co-injecting neurotrophic factors, such
as **BDNF**, NT-4, and GDNF, but not by NGF, NT-3, and CNTF. The
membrane traffic, directly detected using GFP-TTC in vivo, permits methods
of analyzing synaptic functioning as well as methods of modulating
neuronal transport using neurotrophic factors and
agonists or antagonists thereof. Hence, the present invention provides a
method for diagnosis of neurodegenerative disorders and drug screening.

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
IN Roux, Sylvie; Brulet, Philippe; Saint, Cloment Cecile; Barbier, Julien;
Molgo, Jordi
TI Construction of fusion protein of GFP-TTC (**tetanus toxin**
C fragment) and uses for in vivo modulation of **neuronal**
transport
SO U.S. Pat. Appl. Publ., 39 pp., Cont.-in-part of U.S. Ser. No. 816,467.

CODEN: USXXCO

PATENT NO.

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APPLICATION NO.

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PI	US 2004170651	A1	20040902	US 2003-662808	20030916
	US 2003004121	A1	20030102	US 2001-816467	20010326
	US 2005060761	A1	20050317	US 2004-817961	20040406
	WO 2005025592	A2	20050324	WO 2004-EP10991	20040915
	WO 2005025592	A3	20051110		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AB A hybrid protein (GFP-TTC) comprising the non-toxic proteolytic C fragment of **tetanus toxin** fused to green fluorescent protein was used to analyze the functional synaptic organization of neural networks. When injected i.m. in vivo, the GFP-TTC hybrid protein binds to tetanus neurotoxin receptors and clusters very rapidly to the active neuromuscular junction. Membrane traffic by GFP-TTC at the pre-synaptic level of the neuromuscular junction is strongly and rapidly influenced by exogenously co-injecting neurotrophic factors, such as **BDNF**, **NT-4**, and **GNDF**, but not by **NGF**, **NT-3**, and **CNTF**. The membrane traffic, directly detected using GFP-TTC in vivo, permits methods of analyzing synaptic functioning as well as methods of modulating **neuronal transport** using neurotrophic factors and agonists or antagonists thereof.

=> d au ti so pi 1-19 l7

L7 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN

IN Vazquez-Martinez, Rafael; Brulet, Philippe

TI Fusion protein comprising **tetanus toxin** C fragment and green fluorescent protein or β -galactosidase for direct visualization of active synapses and their use in diagnosis and treatment of neurodegenerative disorders

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	WO 2005097200	A2	20051020	WO 2005-EP4314	20050405

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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

L7 ANSWER 2 OF 19 MEDLINE on STN

DUPLICATE 1

AU Rind Howard B; Butowt Rafal; von Bartheld Christopher S
 TI Synaptic targeting of retrogradely transported trophic factors in
 motoneurons: comparison of glial cell line-derived neurotrophic factor,
brain-derived neurotrophic factor,
 and cardiotrophin-1 with **tetanus toxin**.
 SO The Journal of neuroscience : the official journal of the Society for
 Neuroscience, (2005 Jan 19) Vol. 25, No. 3, pp. 539-49.
 Journal code: 8102140. E-ISSN: 1529-2401.

L7 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN
 IN Roux, Sylvie; Brulet, Philippe; Saint, Cloment Cecile; Barbier, Julien;
 Molgo, Jordi
 TI Construction of fusion protein of GFP-TTC (**tetanus toxin**
 C fragment) and uses for in vivo modulation of neuronal transport
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WO 2005025592	A3	20051110		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG

L7 ANSWER 4 OF 19 MEDLINE on STN DUPLICATE 2
 AU Chaib-Oukadour Imane; Gil Carles; Aguilera Jose
 TI The C-terminal domain of the heavy chain of **tetanus**
toxin rescues cerebellar granule neurones from apoptotic death:
 involvement of phosphatidylinositol 3-kinase and mitogen-activated protein
 kinase pathways.
 SO Journal of neurochemistry, (2004 Sep) Vol. 90, No. 5, pp. 1227-36.
 Journal code: 2985190R. ISSN: 0022-3042.

L7 ANSWER 5 OF 19 MEDLINE on STN DUPLICATE 3
 AU Matsutani S; Yamamoto N
 TI **Brain-derived neurotrophic factor**
 induces rapid morphological changes in dendritic spines of olfactory bulb
 granule cells in cultured slices through the modulation of glutamatergic
 signaling.
 SO Neuroscience, (2004) Vol. 123, No. 3, pp. 695-702.
 Journal code: 7605074. ISSN: 0306-4522.

L7 ANSWER 6 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
 AU Ciriza, J. [Reprint Author]; Miana-Mena, J.; Moreno, M.; Valiente, M.;
 Martin-Burriel, I.; Munoz, M. J.; Zaragoza, P.; Ojeda, M. E. G.; Brulet,
 P.; Osta, R. Y.
 TI Production and functional study of neurotrophic factors fused to C
 fragment **tetanus toxin**.
 SO Gene Therapy, (OCT 2004) Vol. 11, No. Suppl. 1, pp. S149.
 Meeting Info.: 2nd European Conference and Practical Course on Towards
 Clinical Gene Therapy - Preclinical Gene Transfer Assessment. Bellaterra,
 SPAIN. February 01 -14, 2004.
 ISSN: 0969-7128.

L7 ANSWER 7 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
AU Aguilera, J. [Reprint Author]; Gil, C. [Reprint Author]; Chaib-Oukadour,
I. [Reprint Author]
TI **Tetanus toxin** by its HC fragment rescues cerebellar
granule neurons from apoptotic death.
SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2003)
Vol. 2003, pp. Abstract No. 472.14. <http://sfn.scholarone.com>. e-file.
Meeting Info.: 33rd Annual Meeting of the Society of Neuroscience. New
Orleans, LA, USA. November 08-12, 2003. Society of Neuroscience.

L7 ANSWER 8 OF 19 MEDLINE on STN
AU Wang XiaoXia; Butowt Rafal; Vasko Michael R; von Bartheld Christopher S
TI Mechanisms of the release of anterogradely transported neurotrophin-3 from
axon terminals.
SO The Journal of neuroscience : the official journal of the Society for
Neuroscience, (2002 Feb 1) Vol. 22, No. 3, pp. 931-45.
Journal code: 8102140. E-ISSN: 1529-2401.

L7 ANSWER 9 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
AU Hartmann, M. [Reprint author]; Heumann, R. [Reprint author]; Lessmann, V.
[Reprint author]
TI Postsynaptic secretion of **BDNF**-GFP after high frequency
stimulation of glutamatergic synapses.
SO Pfluegers Archiv European Journal of Physiology, (March, 2002) Vol. 443,
No. Supplement 1, pp. S297. print.
Meeting Info.: 81st Annual Joint Meeting of the Physiological Society, the
Scandinavian Physiological Society and the German Physiological Society.
Tuebingen, Germany. March 15-19, 2002.
CODEN: PFLABK. ISSN: 0031-6768.

L7 ANSWER 10 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
AU Numakawa, T. [Reprint Author]; Yokomaku, D. [Reprint Author]; Kiyosue, K.
[Reprint Author]; Mastumoto, T. [Reprint Author]; Numakawa, Y. [Reprint
Author]; Taguchi, T. [Reprint Author]; Yamada, M.
TI **BFGF** EVOKES A RAPID **GLUTAMATE** RELEASE THROUGH ACTIVATION OF THE **MAPK**
PATHWAY IN CULTURED CORTICAL NEURONS.
SO Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002)
Vol. 2002, pp. Abstract No. 426.19. <http://sfn.scholarone.com>. cd-rom.
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience.
Orlando, Florida, USA. November 02-07, 2002. Society for Neuroscience.

L7 ANSWER 11 OF 19 MEDLINE on STN DUPLICATE 4
AU Pascual M; Climent E; Guerri C
TI **BDNF** induces glutamate release in cerebrocortical nerve
terminals and in cortical astrocytes.
SO Neuroreport, (2001 Aug 28) Vol. 12, No. 12, pp. 2673-7.
Journal code: 9100935. ISSN: 0959-4965.

L7 ANSWER 12 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on
STN
AU Lessmann, V. [Reprint author]; Hartmann, M. [Reprint author]; Laue, M.
[Reprint author]; Heumann, R. [Reprint author]
TI High frequency stimulation induces postsynaptic release of **BDNF**
-GFP at glutamatergic synapses.
SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 2, pp. 1805.
print.
Meeting Info.: 31st Annual Meeting of the Society for Neuroscience. San
Diego, California, USA. November 10-15, 2001.
ISSN: 0190-5295.

L7 ANSWER 13 OF 19 MEDLINE on STN DUPLICATE 5
AU Matsumoto T; Numakawa T; Adachi N; Yokomaku D; Yamagishi S; Takei N;

Hatanaka H

TI **Brain-derived neurotrophic factor**
enhances depolarization-evoked glutamate release in cultured cortical neurons.

SO Journal of neurochemistry, (2001 Nov) Vol. 79, No. 3, pp. 522-30.
Journal code: 2985190R. ISSN: 0022-3042.

L7 ANSWER 14 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

AU Matsumoto, T. [Reprint author]; Numakawa, T. [Reprint author]; Adachi, N. [Reprint author]; Yokomaku, D. [Reprint author]; Yamagishi, S. [Reprint author]; Takei, N.; Hatanaka, H. [Reprint author]

TI Short-term treatment of **BDNF** enhances depolarization-evoked glutamate release in cultured cortical neurons.

SO Society for Neuroscience Abstracts, (2001) Vol. 27, No. 1, pp. 65. print. Meeting Info.: 31st Annual Meeting of the Society for Neuroscience. San Diego, California, USA. November 10-15, 2001. ISSN: 0190-5295.

L7 ANSWER 15 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

AU Verderio, C.; Coco, S.; Pravettoni, E.; Bacci, A.; Matteoli, M. [Reprint author]

TI Synaptogenesis in hippocampal cultures.

SO CMLS Cellular and Molecular Life Sciences, (Aug. 30, 1999) Vol. 55, No. 11, pp. 1448-1462. print. ISSN: 1420-682X.

L7 ANSWER 16 OF 19 MEDLINE on STN DUPLICATE 6

AU Liang F; Le L D; Jones E G

TI Reciprocal up- and down-regulation of **BDNF** mRNA in **tetanus toxin**-induced epileptic focus and inhibitory surround in cerebral cortex.

SO Cerebral cortex (New York, N.Y. : 1991), (1998 Sep) Vol. 8, No. 6, pp. 481-91.
Journal code: 9110718. ISSN: 1047-3211.

L7 ANSWER 17 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

AU Liang, F. [Reprint author]; Hashikawa, T.; Jones, E. G.

TI Differential changes in neurotrophin gene expression in **tetanus toxin**-induced epileptic focus and inhibitory surround.

SO Society for Neuroscience Abstracts, (1997) Vol. 23, No. 1-2, pp. 1687. Meeting Info.: 27th Annual Meeting of the Society for Neuroscience. New Orleans, Louisiana, USA. October 25-30, 1997. ISSN: 0190-5295.

L7 ANSWER 18 OF 19 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

AU Liang, Fengyi [Reprint author]; Jones, Edward G.

TI Differential changes in neurotrophin gene expression in **tetanus toxin**-induced focal epilepsy.

SO Neuroscience Research Supplement, (1997) Vol. 0, No. 21, pp. S172. Meeting Info.: 20th Annual Meeting of the Japan Neuroscience Society. Sendai, Japan. July 16-18, 1997. ISSN: 0921-8696.

L7 ANSWER 19 OF 19 MEDLINE on STN DUPLICATE 7

AU Johnson J E; Barde Y A; Schwab M; Thoenen H

TI **Brain-derived neurotrophic factor**
supports the survival of cultured rat retinal ganglion cells.

SO The Journal of neuroscience : the official journal of the Society for Neuroscience, (1986 Oct) Vol. 6, No. 10, pp. 3031-8.
Journal code: 8102140. ISSN: 0270-6474.

Freeform Search

Database:	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins
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<u>L5</u>	11 with 12	13	<u>L5</u>
<u>L4</u>	11 and 12	56	<u>L4</u>
<u>L3</u>	neuron\$ near5 transport	745	<u>L3</u>
<u>L2</u>	tetanus adj toxin	1807	<u>L2</u>
<u>L1</u>	trkb adj receptor near3 agonist or bdnf or neurotrophin adj 4	2996	<u>L1</u>

END OF SEARCH HISTORY

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-
- ☐ 1. [20060051356](#). 26 Sep 05. 09 Mar 06. Clostridial toxin derivatives able to modify peripheral sensory afferent functions. Foster; Keith Alan, et al. 424/183.1; 424/239.1 A61K39/08 20060101 A61K39/395 20060101
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- ☐ 2. [20060019880](#). 06 Jul 05. 26 Jan 06. Modulation of synaptogenesis. Barres; Ben A., et al. 514/8; A61K38/16 20060101
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- ☐ 3. [20050060761](#). 06 Apr 04. 17 Mar 05. Methods for direct visualization of active synapses. Vazquez-Martinez, Rafael, et al. 800/3; 435/4 C12Q001/00 A01K067/027.
-
- ☐ 4. [20040228881](#). 18 Sep 03. 18 Nov 04. Compositions and methods for modulating neural sprouting. Oliver, Dolly J., et al. 424/239.1; 424/145.1 514/12 A61K039/08 A61K039/395 A61K038/18.
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- ☐ 5. [20040170651](#). 16 Sep 03. 02 Sep 04. In vivo modulation of neuronal transport. Roux, Sylvie, et al. 424/239.1; A61K039/08.
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- ☐ 6. [20030147895](#). 25 Jun 02. 07 Aug 03. Constructs for delivery of therapeutic agents to neuronal cells. Shone, Clifford Charles, et al. 424/178.1; 514/44 A61K039/395 A61K048/00.
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- ☐ 7. [20030083299](#). 02 Jul 02. 01 May 03. Non-invasive delivery of polypeptides through the blood-brain barrier. Ferguson, Ian A.. 514/44; 435/455 A61K048/00 C12N015/85.
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- ☐ 8. [20030049264](#). 20 May 02. 13 Mar 03. Clostridial toxin derivatives able to modify peripheral sensory afferent functions. Foster, Keith Alan, et al. 424/183.1; 424/247.1 435/69.1 435/69.3 435/69.7 530/350 A61K039/08 C12P021/06 C12P021/04 A61K039/40 A61K039/44 C07K014/00 C12N015/09 A61K039/395 A61K039/42 C07K001/00 C07K017/00.
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- ☐ 9. [20030004121](#). 26 Mar 01. 02 Jan 03. Hybrid proteins that migrate retrogradely and transynaptically into the CNS. Coen, Laurent, et al. 514/44; 424/236.1 A61K048/00 A61K039/02.
-
- ☐ 10. [6962703](#). 20 May 02; 08 Nov 05. Clostridial toxin derivatives able to modify peripheral sensory afferent functions. Foster; Keith Alan, et al. 424/183.1; 424/832 424/94.67 435/220 435/69.1 435/69.7 514/2 530/350 530/388.22 530/391.7 530/402. A61K038/16 C07K014/33 C07K019/00 C12N015/62 .
-
- ☐ 11. [6887861](#). 06 Nov 00; 03 May 05. Compounds for intracellular delivery of therapeutic moieties to nerve cells. Hill; Gordon Craig, et al. 514/179; 424/1.45 436/139 514/172. A81K031/56 A81K031/58 A81K051/00 G01N033/00 A61M036/14 .
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- ☐ 12. [6652864](#). 21 Dec 98; 25 Nov 03. Compounds for intracellular delivery of therapeutic moieties to nerve cells. Webb; Robert R., et al. 424/193.1; 424/194.1 424/195.11. A61K038/18 A61K039/385 .
-
- ☐ 13. [6395513](#). 22 Nov 99; 28 May 02. Clostridial toxin derivatives able to modify peripheral sensory afferent functions. Foster; Keith Alan, et al. 435/69.3; 435/69.1 435/69.7 530/350. C12N015/62 C12N015/09 C12P021/00 C07K019/00 .

☐ 14. 5989545. 12 Jan 98; 23 Nov 99. Clostridial toxin derivatives able to modify peripheral sensory afferent functions. Foster; Keith Alan, et al. 424/183.1; 424/832 424/94.67 435/220 435/69.1 435/69.7 514/2 530/350 530/388.22 530/391.7 530/402. A61K038/16 C07K014/33 C07K019/00 C12N015/62 .

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